

Claims

1. Pallet truck having a lifting device mounted on the axle of two wheels, and a supporting frame mounted on two rollers, having two bearers, which is movably connected with the lifting device, whereby the lifting device has a lifting pump arranged on a console, which is arranged on a support that is mounted on the axle between the two wheels, and whereby a rod is arranged on the lifting pump and the lifting pump has a piston rod, the head of which projects out of the housing of the lifting pump, in an upward direction, and whereby a roller is arranged at the back end of the two bearers, in each instance, and the bearers are connected with one another at the front end by way of a crossbar, and a holder frame having a socket is provided at the front end of the bearers, which socket is mounted on the head of the piston rod, in articulated manner, and whereby a two-armed linkage is arranged on both sides of the console, the front arms of which are connected with the console, and the back rod of which is connected with the related roller, in each instance, so as to pivot,  
  
characterized in that

the head (47) of the piston rod (46) and the socket is secured against falling out by means of an easily releasable screw, and that the front arm of the linkage (28), in each instance, is arranged so as to rotate on the console (44), by means of a socket pin (48, 49), and that the socket pin (48, 49) is secured against falling out by means of a holder pin (52, 53).

2. Pallet truck as recited in claim 1, characterized in that the lifting device (12) is configured as a thrust piston pump, the piston rod (46) of which is mounted to be axially displaceable in the pump housing (45), and projects out of the pump housing (45) in an upward direction.
3. Pallet truck as recited in claim 1 or 2, characterized in that the screw in the socket is passed through the side walls of the socket and a ring-shaped constriction (58) in the top part of the piston rod (46).
4. Pallet truck as recited in one or more of claims 1 to 3, characterized in that the socket pin (48, 49) is mounted in the console (44) so as to rotate, and the holder pin (52, 53)

is guided through the console (44) and a ring-shaped constriction of the socket pin (48, 49).

5. Pallet truck as recited in one or more of claims 1 to 4, characterized in that the screw and the holder pin (52, 53) as well as the socket pin (48, 49) are connected with one another by means of a chain (73).
6. Pallet truck as recited in one or more of claims 1 to 5, characterized in that a set of wheels (14, 15) having two wheels (14, 15) and an axle is provided, whereby a support (42) is mounted to rotate on the axle, which support carries the console (44) with the pump device (12).
7. Pallet truck as recited in one or more of claims 1 to 6, characterized in that a rod for lifting, lowering, pulling, pushing and steering the pallet truck is provided on the console (44), which rod activates the pump device (12) by being pivoted in the vertical plane.
8. Pallet truck as recited in one or more of claims 1 to 7, characterized in that the bearers (18, 19), the holder frame

of the supporting frame, and the rod have openings (39, 40) or recesses.

9. Pallet truck having a lifting device mounted on the axle of two wheels, and a supporting frame mounted on two rollers, having two bearers, which is movably connected with the lifting device, whereby the lifting device has a lifting pump arranged on a console, which is arranged on a support that is mounted on the axle between the two wheels, and whereby a rod is arranged on the lifting pump and the lifting pump has a piston rod, the head of which projects out of the housing of the lifting pump, in an upward direction, and whereby a roller is arranged at the back end of the two bearers, in each instance, and the bearers are connected with one another at the front end by way of a crossbar, and a holder frame having a socket is provided at the front end of the bearers, which socket is mounted on the head of the piston rod, in articulated manner, and whereby a two-armed linkage is arranged on both sides of the console, the front arms of which are connected with the console, and the back rod of which is connected with the related roller, in each instance, so as to pivot, characterized in that

the pallet truck can be broken down into two parts of approximately equal weight, and the disassembled parts can be re-assembled to form the pallet truck.

10. Pallet truck as recited in claim 9, characterized in that the pallet truck can be broken down into the lifting device and the supporting frame (100), and that the lifting device (102) and the supporting frame (100) can be re-assembled to form the pallet truck.
11. Pallet truck as recited in claim 9 or 10, characterized in that the lifting pump is configured as a thrust piston pump, the piston rod of which is mounted to be axially displaceable in the pump housing, and projects out of the housing in an upward direction.
12. Pallet truck as recited in one or more of claims 9 to 11, characterized in that a spring-loaded snapper (158) is provided in the holder frame (101), at the level of the piston rod head (137), which acts perpendicular to the piston rod axis, i.e. horizontally, which snapper is brought into and out of engagement with a constriction (138) of the piston rod head (137).

13. Pallet truck as recited in one or more of claims 9 to 12, characterized in that a horizontally directed accommodation journal (164, 165) arranged crosswise to the longitudinal axis of the pallet truck is provided on the console (134), on both sides, in each instance.
14. Pallet truck as recited in one or more of claims 9 to 13, characterized in that a toggle lever (157) is mounted, in articulated manner, on the bearers (108, 109), in each instance, each toggle lever having a bearing accommodation (166), open towards the front, to accommodate the accommodation journal (164, 165), at its front end.
15. Pallet truck as recited in one or more of claims 9 to 14, characterized in that a holder bracket (168) is arranged so as to pivot, in the front region of the toggle lever (157), which bracket is to be pivoted over the bearing accommodation (166).
16. Pallet truck as recited in one or more of claims 9 to 15, characterized in that a set of wheels having two wheels and an axle is provided, whereby a support is mounted to rotate

on the axle, which support carries the console (134) with the pump.

17. Pallet truck as recited in one or more of claims 9 to 16, characterized in that a rod for lifting, lowering, pulling, pushing and steering the pallet truck is provided on the console (134), which rod activates the pump by being pivoted in the vertical plane.
18. Pallet truck as recited in one or more of claims 9 to 17, characterized in that the bearers, the holder frame of the supporting frame, and the rod have openings or recesses.